



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Managing Director

M/S. KRANTI AGRANI DR. G. D. BAPU LAD SAHAKARI SAKHAR
KARKHANA LTD.

At/Po Kundal, Tal-Palus, Dist-Sangali, Maharashtra,, Sangli, Maharashtra-
416309

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the Ministry vide proposal number
IA/MH/IND2/237787/2019 dated 19 Nov 2021. The particulars of the environmental
clearance granted to the project are as below.

- | | |
|---|---|
| 1. EC Identification No. | EC21A022MH111022 |
| 2. File No. | No.J-11011/117/2016- IA II(I) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 5(g) Distilleries |
| 6. Name of Project | Expansion of molasses based distillery from 60 to 90 KLPD |
| 7. Name of Company/Organization | M/S. KRANTI AGRANI DR. G. D. BAPU LAD SAHAKARI SAKHAR KARKHANA LTD. |
| 8. Location of Project | Maharashtra |
| 9. TOR Date | 26 Aug 2019 |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 31/12/2021

(e-signed)
A.K Pateshwary
Director
IA - (Industrial Projects - 2 sector)

*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.*

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and Virtuous Environment Single-Window Hub)



This has reference to your online proposal no. IA/MH/IND2/237787/2019, dated 19th November, 2021 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the Expansion of molasses based distillery unit from 60 to 90 KLPD by M/s. Krantiagrani Dr. GD Bapu Lad SSK Sahakari Sakhar Karkhana Ltd. Located at Gat no. 2955, village Kundal, Taluka Palus, District Sangli, Maharashtra.

3. All distillery projects are listed at S.N. 5(g) of Schedule of Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

4. The Standard ToR has been issued vide letter No. J-11011/117/2016- IA II(I) dated 26th August, 2019. Public Hearing for the proposed project has been conducted by the Maharashtra Pollution Control Board on 14.01.2021 at Project Site of M/s. Krantiagrani Dr. G. D. Bapu Lad Sahakari Sakhar Karkhana Ltd., Sangli and chaired by District Magistrate, Sangli. The main issues raised during the public hearing are related to concerns with particulate air pollution and wastewater treatment. It was informed that no litigation is pending against the project.

5. Ministry had issued EC earlier vide letter no. F. No. J-11011/ 117/ 2016-IA-II (I) ; dated 20th July 2017 to the existing 60 KLPD distillery in favour of M/s. Krantiagrani Dr. GD Bapu Lad SSK Sahakari Sakhar Karkhana Ltd.

6. Details of Certified compliance report submitted by RO, MoEF&CC, Nagpur through a letter vide F. No. EC -529/RON/2017-NGP/8213 dated 01.07.2021. Action taken report towards Non- complied/Partly Complied conditions observed by RO; MoEFCC submitted by PP on 30.10.2021. ATR is found satisfactory by the EAC and recommended the proposal.

7. The details of products and capacity are as under: -

| S. No | Product Details | Existing Quantity (KLPD) | Proposed Quantity (KLPD) | Total Quantity (KLPD) |
|--------------|---|---------------------------------|---------------------------------|------------------------------|
| 1 | Rectified spirit or ENA or Fuel alcohol & impure spirit (approx. 5 to 6%) | 60 | 30 | 90 |
| 2 | Fusel oil (by-product) | 480 L/day | 240 L/day | 720 L/day |

8. The existing distillery occupies 14.23 acres. Proposed expansion is mainly through modification of existing set up and will not require any additional land. Industry has already developed greenbelt in an area of 33 % i.e., 41 acres out of total area of the project. Existing area (entire industry including sugar unit) is 126.4 Acers. The estimated project cost is Rs 424.75 lakhs. Total capital cost

earmarked towards environmental pollution control measures is Rs 136.25 lakhs and the Recurring cost (operation and maintenance) will be about Rs 433.60 lakhs per annum. No new direct employment opportunities. Since the project is expansion of existing unit and present manpower is adequate even after expansion. The industry proposes to allocate Rs. 8.50 lakhs of 2.0 % towards Corporate Social Responsibility.

9. The Yashwantrao Chavan Sagareshwar Wildlife Sanctuary 1.7 km towards west of site. ESZ of Yashvantrao Chavan Sagareshwar Wildlife Sanctuary has been notified vide Ministry Notification dated 15th May, 2017. The Eco-sensitive Zone is spread over an area of 3.68 square kilometres with an extent up to 100 metres from the boundary of Yashvantrao Chavan Sagareshwar Wildlife Sanctuary.

10. Ambient air quality monitoring was carried out at 8 locations during 10th Oct 2019 to 15th January 2020 and the baseline data indicates the ranges of concentrations as: PM10 (56.40 to 71.20 µg/m³), PM2.5 (26.22 to 36.50µg/m³), SO2 (17.60 to 25.80 µg/m³) and NO2 (22.40 to 34.20 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.67 µg/m³, 3.19 µg/m³ with respect to PM10, and Sox. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. Total water requirement is 681 m³/day distillery will be met from Krishna River through canal with permission from irrigation department. Effluent 720 m³/day (raw spentwash from distillery) will be concentrated through multi-effect evaporation (up to ~144 m³/day) followed by incineration. The plant will be based on Zero Liquid discharge system.

12. Power requirement after expansion will be 2.0 MW during season it will be met from in house STG of 2.0 MW capacity. Existing incineration boiler of 22 TPH with pressure 45 kg/cm² and ESP as Air pollution control device. The same will be used after suitable augmentation.

13. Details of process emissions generation and its management:

CO₂ emissions from the fermentation process will be around 66.6 TPD. CO₂ Scrubber unit is provided from the same.

14. Details of Solid waste/ Hazardous waste generation and its management:

Solid waste generation and disposal: Distillery unit

| Sl. No. | Waste | Quantity | Disposal | Remark |
|---------|----------------------------|-----------|------------------------------|-------------------|
| 1. | Yeast sludge (Dry) | 27-30 TPA | Used as soil conditioner | Organic |
| 2. | Ash from Spent wash & Coal | 58.90 TPD | Given to brick manufacturers | Inorganic |
| 3. | CPU sludge | 40-45 TPA | Used as soil | Organic/Inorganic |

| | | | | |
|--|-------|--|-------------|--|
| | (dry) | | conditioner | |
|--|-------|--|-------------|--|

15. During deliberations EAC sought the following information/commitments from PP:

- PP shall utilize fresh water @4.0 KL/KL ethanol.
- Company to construct a storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
- Brick manufacturing unit will be installed within the plant premises for utilization of fly ash.
- 33% of the total project area shall be developed with greenbelt within the plant premises including 5-10 m width greenbelt peripherally.
- PP shall meet 10% of the total power requirement from solar power.
- Entire project shall be ZLD and no single drop of water shall be discharged outside of plant premises.
- PP shall allocate at least Rs. 50 Lakhs for Occupational Health Safety.
- The proposed budget allocation of Rs. 40.0 Lakhs towards CER and it shall be used for installation of solar power and improving infrastructure of schools for villagers free of cost.

PP has submitted the desired information as sought above.

16. The proposal was considered by the EAC in its 45th meeting held on 29-30th November, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Vasantdada Sugar Institute, presented the case. The Committee **recommended** the project for grant of environmental clearance.

17. The EAC constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

18. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and

accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

19. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

20. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of molasses based distillery unit from 60 to 90 KLPD by M/s. Krantiagrani Dr. GD Bapu Lad SSK Sahakari Sakhar Karkhana Ltd. Located at Gat no. 2955, village Kundal, Taluka Palus, District Sangli, Maharashtra,** under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Condition:

- (i). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ii). The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises.
- (iii). Total fresh water requirement shall not exceed @ 4.0 KL/KL and will be met from Krishna River through canal. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises. Company to construct a storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
- (iv). The spent wash/other concentrates shall be treated by concentration followed by incineration. Brick manufacturing unit will be installed within the plant premises for utilization of fly ash. PP shall meet 10% of the total power requirement from solar power.

- (v). CO₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.
- (vi). PP shall allocate at least Rs. 50 Lakhs for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (vii). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (viii). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
- (ix). Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (x). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xi). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xii). The proposed budget of Rs. 40.0 Lakhs towards CER shall be used for installation of solar power and improving infrastructure of schools for villagers free of cost.
- (xiii). There shall be inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places.
- (xiv). Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (xv). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB

server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

- (xvi). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

B. General Condition:

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
- (vi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

- (vii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (viii) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (ix) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (x) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- (xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

21. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

22. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

23. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

24. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

25. This issues with the approval of the competent authority.

(Ashok Kr. Pateshwary)
Director

Copy to: -

1. The Secretary, Department of Environment, Government of Maharashtra, Mumbai 400 032
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001 Maharashtra
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai – 22
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, District Sangli, Maharashtra
7. Guard File/Monitoring File/Parivesh portal/Record File

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